Horne work O

lia As the limit of X goes to or 1. will be the larger polynomial because it has a degree of 3 and 2. has a degree of 2. to 1 grows faster.

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1. B. As the limit of x goes to wo 1. will be the larger polynomial because it has a degree of 7 and 7. has a degree of 7 and 7. has a degree of 6. So 2 grows faster.

Polynomial because they both have the same degree but I has a coefficient of x4 that is 71 and has + x3 D so 2 grows faster.

2.a. log2(x)=8 -7 (x=28)

 $2c \times = log_4(32)$ $2c \times = log_2(32)$ $2c \times = log_2(32)$

x = 5/2

2.6 (logs(x) = logs(2) + 25 logs(x) - logs(2) = 25

logs (=) = 25 = = 525 [x = 2.525]

3 ["Howdy", "Hello", "Hey"]

